

ASSIGNMENT

FG 8/26

WHEREAS, WE, Katherine Galvin, residing at ~~261 Pershing Rd, Jamaica Plain MA 02130~~
Zef Pershing Rd, Jamaica Plain MA 02130, a citizen
 of the United States; Dean A. Falb, residing at 28 Swarthmore Road, Wellesley, Massachusetts 02482, a citizen of the United
 States; Michael J. Donovan, residing at 265 Dudley Street, Brookline, Massachusetts 02445, a citizen of the United States;
 and Dennis Huszar, residing at 4 Agawam Road, Acton, Massachusetts 01720, a citizen of Canada; ASSIGNORS, are the
 inventors of the invention in

**COMPOSITIONS AND METHODS FOR THE TREATMENT AND DIAGNOSIS
OF CARDIOVASCULAR DISEASE**

for which we have executed an application for a Patent of the United States

- which is identified by Pennie & Edmonds LLP docket no. 7853-140
- which was filed on April 8, 1999, Application No. 09/288,292

and WHEREAS, MILLENNIUM PHARMACEUTICALS, INC., ASSIGNEE, having a principal place of business at 640 Memorial Drive, Cambridge, Massachusetts 02139, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 8/26/99, 1999 Katherine M. Galvin L.S.
KATHERINE GALVIN

State of Massachusetts)
 County of Middlesex) SS.:
Massachusetts

In the State of Massachusetts, county of Middlesex on 8/26/99, before
 me, Deborah L. Johnson, Notary Public, personally appeared Katherine Galvin,
 personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within
 instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that
 by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
 executed the instrument.

WITNESS my hand and official seal

SOLE
ASSIGNMENT

WHEREAS, I, Michael A. Gimbrone, Jr., ASSIGNOR, citizen of the United States, residing at 30 Hopkins Road, Jamaica Plain, Massachusetts 02130, am the inventor of the invention in

COMPOSITIONS AND METHODS FOR THE TREATMENT AND DIAGNOSIS
OF CARDIOVASCULAR DISEASE

for which I have executed an application for a Patent of the United States

- which is identified by Pennie & Edmonds LLP docket no. 7853-140
- which was filed on April 8, 1999, Application No. 09/288,292

and WHEREAS, Brigham and Women's Hospital, ASSIGNEE, an institution organized and existing under the laws of the State of Massachusetts, and having a principal place of business at 75 Francis Street, Boston, Massachusetts 02115, is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said application:

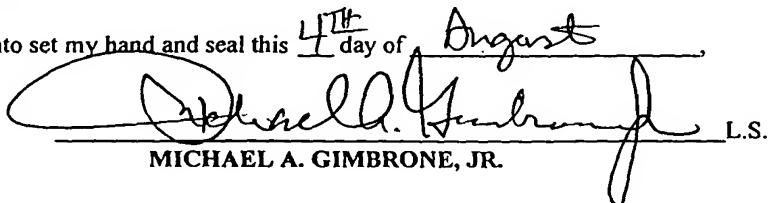
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

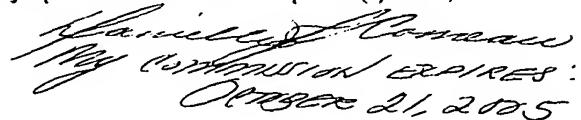
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 4th day of August,
1999.


MICHAEL A. GIMBRONE, JR. L.S.

State of Massachusetts)
) SS.:

County of Middlesex

In the State of Massachusetts, county of Middlesex, on June 4, 1999,
before me, James T. Clark, Notary Public, personally appeared Michael A. Gimbrone, Jr.,
personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within
instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that
by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
executed the instrument.


My Commission Expires:
October 21, 2005

JOINT

ASSIGNMENT

WHEREAS, WE, Katherine Galvin, residing at 162 Appleton Street, Cambridge, Massachusetts 02138, a citizen of the United States; Dean A. Falb, residing at 28 Swarthmore Road, Wellesley, Massachusetts 02482, a citizen of the United States; Michael J. Donovan, residing at 265 Dudley Street, Brookline, Massachusetts 02445, a citizen of the United States; and Dennis Huszar, residing at 4 Agawam Road, Acton, Massachusetts 01720, a citizen of Canada; ASSIGNORS, are the inventors of the invention in

COMPOSITIONS AND METHODS FOR THE TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE

for which we have executed an application for a Patent of the United States

- ☒ which is identified by Pennic & Edmonds LLP docket no. 7853-140
- ☒ which was filed on April 8, 1999, Application No. 09/288,292

and WHEREAS, MILLENNIUM PHARMACEUTICALS, INC., ASSIGNEE, having a principal place of business at 640 Memorial Drive, Cambridge, Massachusetts 02139, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

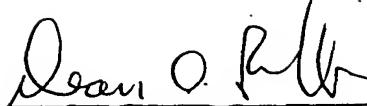
IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date _____, 1999 _____ L.S.
KATHERINE GALVIN

State of }
County of } SS.:

In the State of _____, county of _____, on _____, 1999, before me, _____, Notary Public, personally appeared _____, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

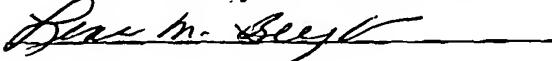
Date August 5, 1999
DEAN A. FALB

L.S.

State of Massachusetts } SS.:
County of Norfolk }

In the State of Massachusetts, county of Norfolk, on Aug 5, 1999, before
 me, Lena Beegle, Notary Public, personally appeared Dean A. Falb
 personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within
 instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that
 by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
 executed the instrument.

WITNESS my hand and official seal



Date _____, 1999

MICHAEL J. DONOVAN

L.S.

State of } SS.:
County of }

In the State of _____, county of _____, on _____, 1999, before
 me, _____ Notary Public, personally appeared Michael J. Donovan
 personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within
 instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that
 by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
 executed the instrument.

WITNESS my hand and official seal

Date _____, 1999

DENNIS HUSZAR

L.S.

State of } SS.:
County of }

In the State of _____, county of _____, on _____, 1999, before
 me, _____ Notary Public, personally appeared Dennis Huszar
 personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within
 instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that
 by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
 executed the instrument.

WITNESS my hand and official seal

Date _____, 1999

DEAN A. FALB

L.S.

State of _____)
County of _____) SS.: _____

In the State of _____, county of _____, on _____, 1999, before me, _____, Notary Public, personally appeared Dean A. Falb, personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal

Date 9/7/99, 1999 X Michael J. Donovan L.S.
MICHAEL J. DONOVAN

State of MASSACHUSETTS) SS.:
County of MIDDLESEX

In the State of Massachusetts, county of Middlesex, on July 27, 1999, before
me, Daniel L. Lewis, Notary Public, personally appeared Michael J. Donovan,
personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within
instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that
by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
executed the instrument.

WITNESS my hand and official seal

Jainesh Mehta

Date 9/2/99, 1999

DENNIS HUSZAR

L.S.

State of Massachusetts) SS.:
County of Middlesex

In the State of Massachusetts, county of Middlesex, on Sept. 1999, before
me, DENNIS HUSZAR, Notary Public, personally appeared Dennis Huszar,
personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within
instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that
by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
executed the instrument.

WITNESS my hand and official seal

Glenn D. Gossman